



PALM INTRANET

Day: Sunday Date: 9/22/2002 Time: 15:37:11

Inventor Name Search Result

Your Search was:

Last Name = HIRAO

First Name = HARUNORI

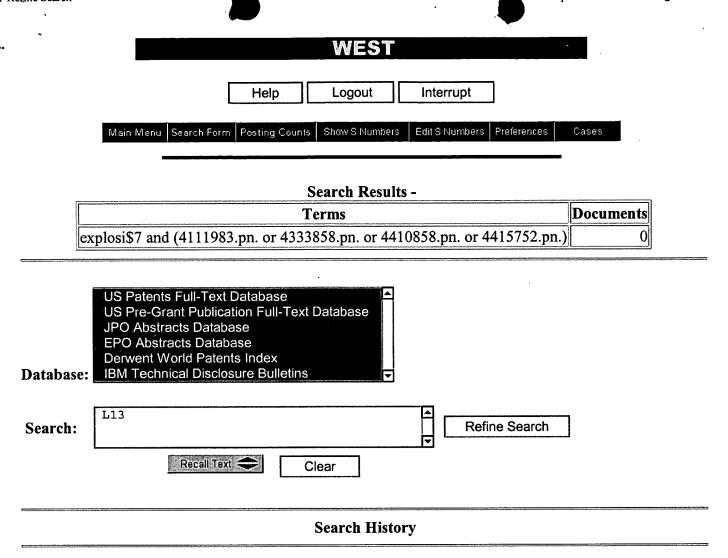
Application#	Patent#	Status	Date Filed	Title	Inventor Name
09644354	Not Issued	041	08/23/2000	METHOD FOR PREVENTING PLATE TYPE HEAT EXCHANGER FROM BLOCKAGE	HIRAO, HARUNORI
09919024	Not Issued	030	07/31/2001	METHOD FOR STARTING UP REACTOR	HIRAO, HARUNORI
09724468	Not Issued	041	11/29/2000	METHOD FOR PREVENTING EFFLUENT GAS PIPE FROM BLOCKING	HIRAO, HARUNORI
09780787	Not Issued	041	02/09/2001	METHOD FOR ABSORBING ACRYLIC ACID AND METHOD FOR PURIFYING ACRYLIC ACID	HIRAO, HARUNORI
10211040	Not Issued	019	08/02/2002	METHOD FOR ABSORBING ACRYLIC ACID AND METHOD FOR PURIFYING ACRYLIC ACID	HIRAO, HARUNORI

Inventor Search Completed: No Records to Display.

	Last Name	First Name	
Search Another:	hirao	harunori	
Inventor	Search		

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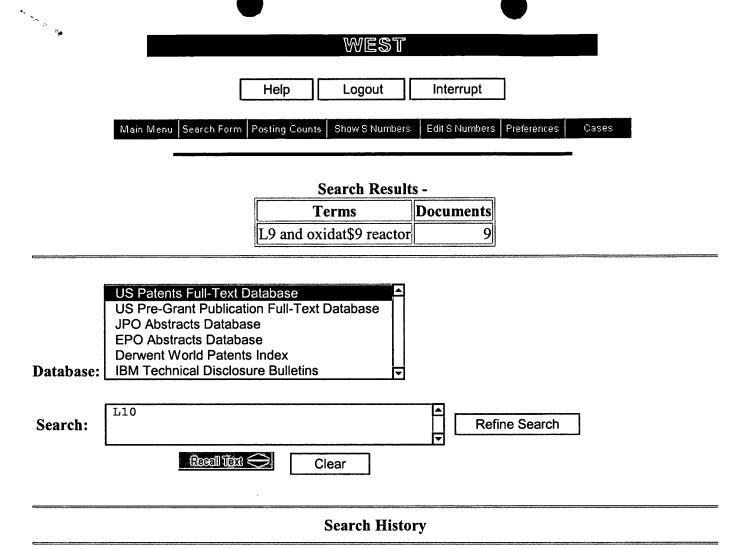
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Set Name side by side		Hit Count S	Set Name result set
DB=US	SPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
<u>L13</u>	explosi\$7 and (4111983.pn. or 4333858.pn. or 4410858.pn. or 4415752.pn.)	0	<u>L13</u>
<u>L12</u>	L11 and explosi\$7	4	<u>L12</u>
DB=US	SPT; PLUR=YES; OP=ADJ		
<u>L11</u>	L10 and acrylic acid	5	<u>L11</u>
<u>L10</u>	L9 and oxidat\$9 reactor	9	<u>L10</u>
<u>L9</u>	L8 and shell and tube reactor	58	<u>L9</u>
<u>L8</u>	16	66744	<u>L8</u>
DB=US	SPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ		
127	L6-and-shell\$2-tube-\$2-reactor	0	<u>L7</u>
<u>/L6</u>	560/\$ or 562/\$ L4 and continuous	794 29	<u> 146</u>
/ <u>L5</u>	L4 and continuous	0	<u> 15</u>
<u>L4</u>	L3 and benzoyl chloride	2	<u>‡4</u>
<u>L3</u>	L2 and benzotrichloride	2	<u>13</u>
L2	aleland pivalic acid	7	<u>I2</u>
<u>L1</u>	562/840 or 562/856 or 562/866 or 562/861 or 562/855	620	<u>L1</u>

END OF SEARCH HISTORY



DATE: Sunday, September 22, 2002 Printable Copy Create Case

Set Name side by side		Hit Count	Set Name result set
DB=US	PT; PLUR=YES; OP=ADJ		
<u>L10</u>	L9 and oxidat\$9 reactor	9	<u>L10</u>
<u>L9</u>	L8 and shell and tube reactor	58	<u>L9</u>
<u>L8</u>	16	66744	<u>L8</u>
DB=US	PT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=ADJ	Ţ	
<u>L7</u>	L6 and shell\$2 tube \$2 reactor	0	<u>L7</u>
<u>L6</u>	560/\$ or 562/\$	79429	<u>L6</u>
<u>L5</u>	L4 and continuous	0	<u>L5</u>
<u>L4</u>	L3 and benzoyl chloride	2	<u>L4</u>
<u>L3</u>	L2 and benzotrichloride	2	<u>L3</u>
<u>L2</u>	L1 and pivalic acid	7	<u>L2</u>
<u>L1</u>	562/840 or 562/856 or 562/866 or 562/861 or 562/855	620	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 9 of 9 returned.

Search Results - 1	xecord(s) i unot	ugn 9 01 9 returned.	
☐ 1. Document ID: US 6417376 B	1		
L10: Entry 1 of 9	File: USPT		Jul 9, 2002
US-PAT-NO: 6417376 DOCUMENT-IDENTIFIER: US 6417376 B1			
TITLE: Selective oxidation process a	nd catalyst t	herefor	
Full Title Citation Front Review Classification Date	Reference Sequences	Attachments Claims KMC	Drawn Desc Image
☐ 2. Document ID: US 6362367 B	1		
L10: Entry 2 of 9	File: USPT		Mar 26, 2002
US-PAT-NO: 6362367 DOCUMENT-IDENTIFIER: US 6362367 B1			
TITLE: Preparation of organic acids			
Full Title Citation Front Review Classification Date	Reference Sequences	Attachments Claims 10MC	Draw Deso Image
☐ 3. Document ID: US 6274743 B	1		
L10: Entry 3 of 9	File: USPT		Aug 14, 2001
US-PAT-NO: 6274743 DOCUMENT-IDENTIFIER: US 6274743 B1			
TITLE: Process for the preparation of	of butanediol,	butyrolactone a	and tetrahydrofuran
Full Title Citation Front Review Classification Date	Reference Sequences	Attachments Claims RMC	Drawn Desc Image
☐ 4. Document ID: US 6239292 B	1		
L10: Entry 4 of 9	File: USPT		May 29, 2001
US-PAT-NO: 6239292 DOCUMENT-IDENTIFIER: US 6239292 B1			
TITLE: Process for preparing gamma-h	outyrolactone,	butane-1,4-dio	l and tetrahydrofuran
Full Title Citation Front Review Classification Date	Reference Sequences	Attachments Claims RMC	Draw Desc Image



☐ 5. Document ID: US 6194588 B1

L10: Entry 5 of 9

File: USPT

Feb 27, 2001

US-PAT-NO: 6194588

DOCUMENT-IDENTIFIER: US 6194588 B1

TITLE: Method for production of maleic anhydride

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

☐ 6. Document ID: US 6118021 A

L10: Entry 6 of 9

File: USPT

Sep 12, 2000

US-PAT-NO: 6118021

DOCUMENT-IDENTIFIER: US 6118021 A

TITLE: Membrane process for argon purging from vinyl acetate reactors

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw Desc Image

☐ 7. Document ID: US 6100410 A

L10: Entry 7 of 9

File: USPT

Aug 8, 2000

US-PAT-NO: 6100410

DOCUMENT-IDENTIFIER: US 6100410 A

TITLE: Process for the production of 1,4-butanediol, .gamma.-butyrolactone and

tetrahydrofuran

Full Title Citation Front Review Classification Date Reference Sequences Attachments KMC Draw Desc Image

☐ 8. Document ID: US 6084125 A

L10: Entry 8 of 9

File: USPT

Jul 4, 2000

US-PAT-NO: 6084125

DOCUMENT-IDENTIFIER: US 6084125 A

TITLE: Process for producing aliphatic acids using a reactor system having a shell and

a tube reactor configuration to force circulation of reaction liquid

Full Title Citation Front Review Classification Date Reference Sequences Attachments

KWMC Draw Desc Image

☐ 9. Document ID: US 4203906 A

L10: Entry 9 of 9

File: USPT

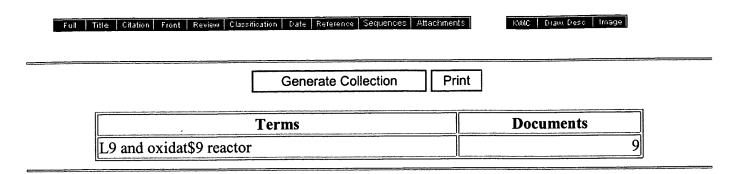
May 20, 1980

US-PAT-NO: 4203906

DOCUMENT-IDENTIFIER: US 4203906 A

TITLE: Process for catalytic vapor phase oxidation





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